

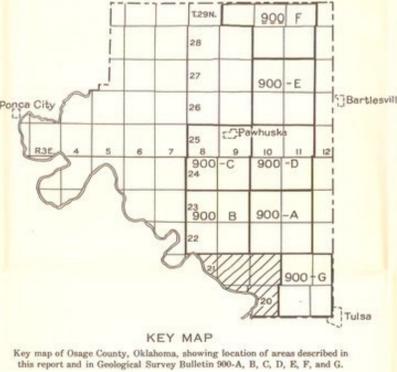
**EXPLANATION FOR MAP**  
Colors on symbols for oil and gas wells indicate producing beds and on symbols for dry holes indicate deepest beds penetrated. Colors correspond to colors shown on columnar section. Producing beds were not determined in most of wells from which color is omitted.  
\* Oil well  
\* Abandoned oil well  
\* Abandoned gas well  
\* Dry hole  
\* Oil well that tested the Mississippian time but produces oil from younger beds  
\* Abandoned oil well that tested the Mississippian time but produced oil from younger beds  
\* Abandoned gas well that tested the Mississippian time but produced gas from younger beds  
\* Oil well that tested Ordovician beds but produces oil from younger beds  
\* Abandoned oil well that tested Ordovician beds but produced oil from younger beds  
\* Abandoned gas well that tested Ordovician beds but produced gas from younger beds  
\* Oil well changed to air or gas pressure well  
\* Air or gas pressure well drilled for pressure only  
\* Oil well changed to salt-water disposal well

**EXPLANATION FOR COLUMNAR SECTION**

- Limestone
- Cherty limestone
- Shale
- Sandstone
- Red rock
- Crystalline rocks
- Unconformity

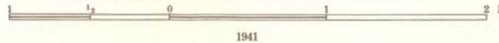
Colors in circles in columnar section correspond to colors used on map to indicate producing beds in oil and gas wells and deepest beds penetrated in dry holes.

- LEASE OWNERSHIP AS OF OCTOBER 1, 1938  
RECORDS FROM OSAGE INDIAN AGENCY**
- Symbol on map Lessee
- A Alexander, J. H. and Morrison, J. E.
  - B Arrowhead Trust Co.
  - C Barnsdall Oil Co. et al.
  - D Barnsdall Oil Co. et al.
  - E Bell Oil & Gas Co.
  - F Breese, Mahet G.
  - G Carper, Joe
  - H Cooser, J. E. et al.
  - J Cooper & Higgins
  - K Danley Petroleum Corporation
  - L Deep Rock Oil Corporation et al.
  - M Devonian Oil Co.
  - N Devonian Oil Co. et al.
  - P Elliott, W. C. and Elliott, F. A.
  - Q Fife, F. W.
  - R Finance Oil Co. and Foster & Davis, Inc.
  - S Foster & Davis, Inc.
  - T Franchot, D. W. and Finance Oil Co.
  - U Gilmore Oil Co.
  - V Gray, Chas. R.
  - W Gray, Chas. R. and Tolson, Ralph S.
  - X Grimes, C. W. and Elliott, F. E.
  - Y Gulf Oil Corporation
  - Z Higgins, J. R. and Cooper, J. E.
  - BA Hollis, E. A.
  - BB Indian Territory Illuminating Oil Co.
  - BC Johnson Oil Refining Co.
  - BD Keasane Oil Co.
  - BE Knapp Oil Corporation
  - BF Langer Oil Co.
  - BG Leavelle, John H.
  - BH Lewis Production Co.
  - BJ Mason, D. B. and Carter Bros.
  - BK Mason, D. B., Jr. and Thompson, E. L.
  - BL Moxie Oil Corporation
  - BM Modlaters Operating Co.
  - BN Monetta Oil & Gas Co.
  - BP Moore Oil Co. et al.
  - BQ Moore Oil Co. and Ohio-Oswego Oil Co.
  - BR Moore Oil Co. and Shelly Oil Co.
  - BS National Refining Co.
  - BT Neal, R. O. and Neal, H. B.
  - BU Norbia Oil Co.
  - BV O'Hara, P. T.
  - BW Ohio Oil Co.
  - BX Ohio-Oswego Oil Co.
  - BY Ohio-Oswego Oil Co. et al.
  - CA Penmar Oil Co.
  - CB Phillips Petroleum Co.
  - CC Phillips Petroleum Co. et al.
  - CD Plattner, E. O.
  - CE Ringgold, Murray
  - CF Royal Oil & Gas Corporation
  - CG Sand Springs Home Interests
  - CH Simmons, I. D. et al.
  - CJ Sinclair Prairie Oil Co.
  - CK Shelly Oil Co. et al.
  - CL Stone, R. D.
  - CM Stouder, Marshall
  - CN Sunray Oil Co.
  - CP The Texas Co.
  - CQ Tide Water Associated Oil Co. and Devonian Oil Co.
  - CR Tide Water Associated Oil Co. et al.



MAP OF PARTS OF TOWNSHIP 20 NORTH, RANGES 9 AND 10 EAST, AND TOWNSHIP 21 NORTH, RANGES 8 AND 9 EAST, AND ALL OF TOWNSHIP 21 NORTH, RANGE 10 EAST, OSAGE COUNTY, OKLAHOMA

Shows the subsurface geologic structure of the top of the Oswego lime (Fort Scott limestone), the producing beds in oil and gas wells, the deepest rocks penetrated in dry holes, and the lease ownership as of October 1, 1938



Base map compiled from General Land Office plats.  
Oil and gas wells compiled from maps of Osage Indian Agency.

Prepared by Charles T. Kirk, W. R. Dillard, Otto Leathercock, and H. D. Jenkins